

03050207-070

(Lemon Creek)

General Description

Watershed 03050207-070 is located in Bamberg County and consists primarily of **Lemon Creek** and its tributaries. The watershed occupies 44,154 acres of the Lower Coastal Plain region of South Carolina. The predominant soil types consist of an association of the Rains-Fuquay-Coxville-Troup-Dothan series. The erodibility of the soil (K) averages 0.15, and the slope of the terrain averages 3%, with a range of 0-10%. Land use/land cover in the watershed includes: 43.6% forested land, 29.4% agricultural land, 18.7% forested wetland, 3.7% urban land, 3.6% barren land, 0.8% nonforested wetland, and 0.2% water.

Lemon Creek originates in the City of Denmark and accepts drainage from Grapevine Branch, Halfmoon Branch, Colt Branch, Hog Bay, and Tony Hill Bay before flowing into the Little Salkehatchie River. There are a total of 79.1 stream miles and 475.9 acres of lake waters in this watershed. Lemon Creek is classified FW* (DO not less than 4mg/l and pH 5.0-8.5) and its tributaries are classified FW.

Surface Water Quality

| <u>Station #</u> | <u>Type</u> | <u>Class</u> | <u>Description</u> |
|------------------|-------------|--------------|-------------------------|
| CSTL-576 | BIO | FW* | LEMON CREEK AT S-05-74 |
| CSTL-116 | W | FW* | LEMON CREEK AT S-15-541 |

Lemon Creek - There are two monitoring sites along Lemon Creek. At the upstream site (**CSTL-576**), aquatic life uses are fully supported based on macroinvertebrate community data. At the downstream site (**CSTL-116**), aquatic life uses are fully supported, but recreational uses are partially supported due to fecal coliform bacteria excursions.

NPDES Program

Active NPDES Facilities

RECEIVING STREAM

FACILITY NAME

PERMITTED FLOW @ PIPE (MGD)

LEMON CREEK
GRIFFIN OIL CO./BAMBERG CITGO
PIPE #: 001 FLOW: M/R

NPDES#

TYPE

COMMENT

SCG830019
MINOR INDUSTRIAL

Nonpoint Source Management Program

Land Disposal Activities

Landfill Facilities

| <i>LANDFILL NAME</i> | <i>PERMIT #</i> |
|---|----------------------------------|
| <i>FACILITY TYPE</i> | <i>STATUS</i> |
| BAMBERG COUNTY LANDFILL TRANSFER STATION | 051001-6001 ACTIVE |
| BAMBERG COUNTY LANDFILL DOMESTIC | DWP-052, 051001-1101 INACTIVE |
| BAMBERG COUNTY C&D LANDFILL C & D | 051001-1201 INACTIVE |

Land Application Sites

| <i>LAND APPLICATION SYSTEM</i> | <i>ND#</i> |
|--------------------------------|-----------------------|
| <i>FACILITY NAME</i> | <i>TYPE</i> |
| SPRAYFIELD TOWN OF BAMBERG | ND0063398 DOMESTIC |

Mining Activities

| <i>MINING COMPANY</i> | <i>PERMIT #</i> |
|---------------------------------|----------------------|
| <i>MINE NAME</i> | <i>MINERAL</i> |
| BAMBERG COUNTY CAMP SAND PIT | 0287-09 SAND/CLAY |

Growth Potential

There is a low potential for growth in this watershed, which contains a portion of the City of Denmark and a portion of the Town of Bamberg. The only commerce in the area is along U.S. Hwy 78, which is projected to be widened and could serve to increase commerce. Rail lines run through Bamberg to Denmark, and another through Denmark to the City of Columbia in one direction and toward the Savannah River in the other; the rail system already in place may encourage industrial growth. Growth is currently limited by the treatment system capacity.